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(Coal mines and mining) (Socialist competition)

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(Coal mines and mining--Equipment and supplies)

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Zhuravlev, V. V.; Iseyev, L. R.; Komarov, N. N.; Kartsev, A. N.; Ivanenko, G. T.;
Levinshiy, S. V.

ORG: none

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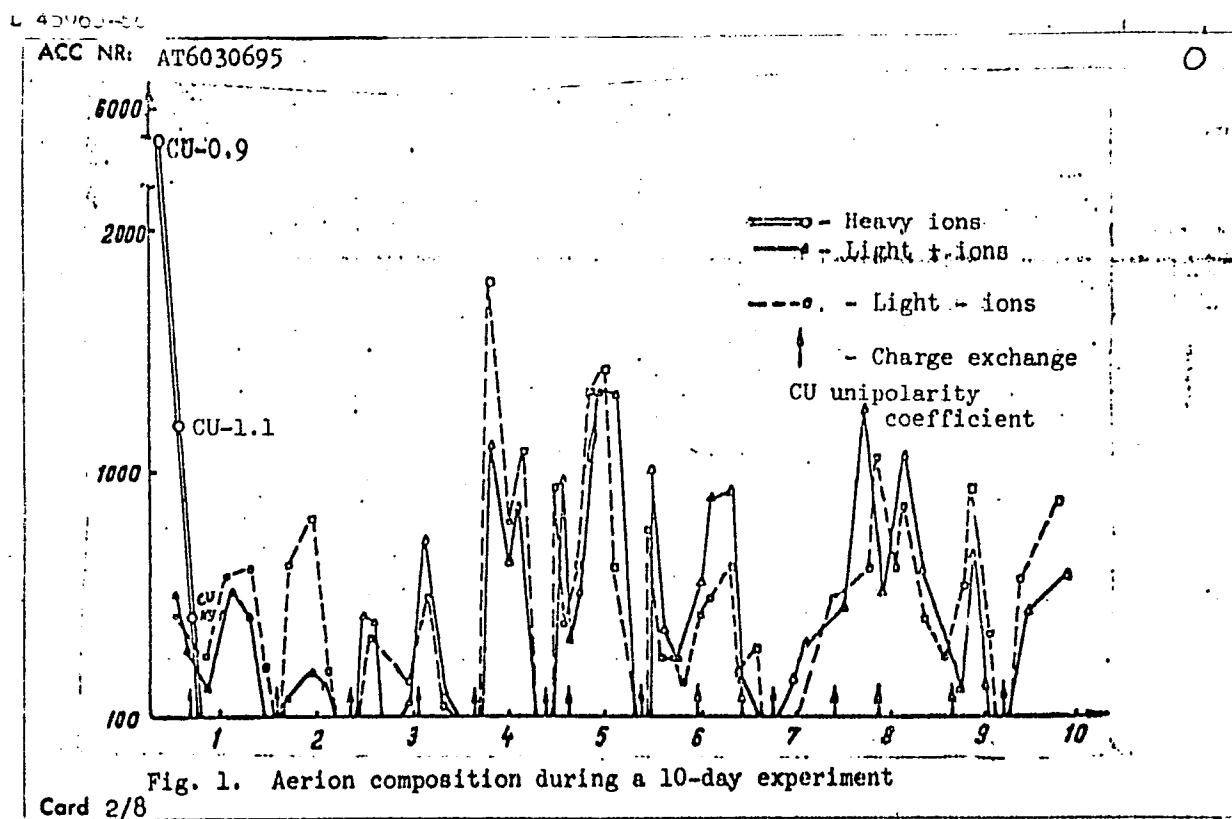
TITLE: The aeroion composition of the air of hermetic chambers and its influence on the human organism

SOURCE: Konferentsiya po kosmicheskoy biologii i meditsine, 1964, Materialy.
Moscow, Inst. mediko-biol. problem, 1966, 35-51

TOPIC TAGS: aeroionization, human physiology, life support system, space physiology

ABSTRACT: A number of previous studies have indicated that while aeroions are of minor consequence, chronic exposure to them can lead to substantial changes in the functional condition of the organism. To further study this factor, five experiments of 20 days duration were conducted on 25 male volunteers from a laboratory (not named). The first experiment was for control purposes to obtain hygienic, chemical, and physiological data. The density of ions in this experiment ranged from 50—2000 pairs of ions/cm³. The second, third, and fourth experiments entailed exposure to positive, negative, and bipolar ions generated by "Shteynbok" radioactive ionizers. Ion concentration in the respiratory zone was 700—900 thousand ions/cm³

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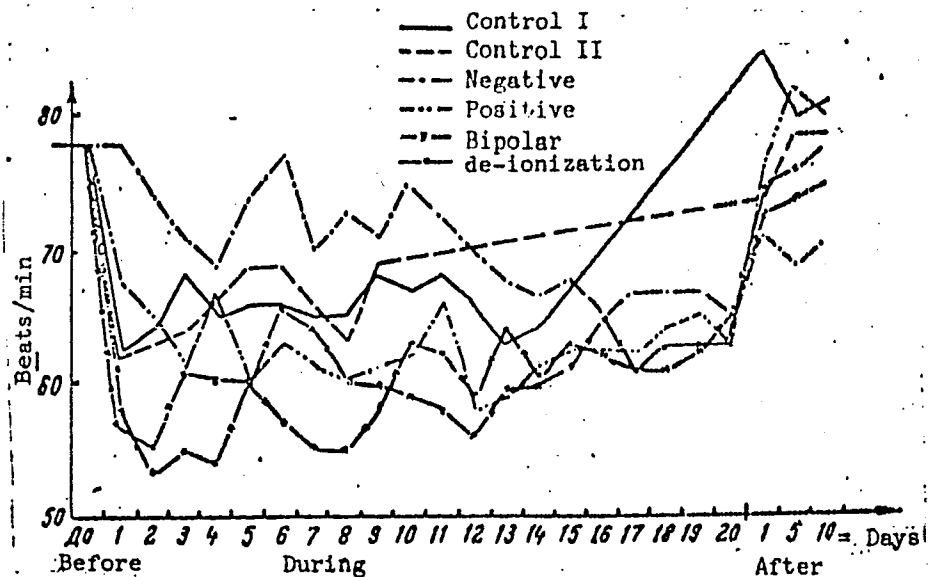


Fig. 2. Pulse dynamics during various experimental regimens

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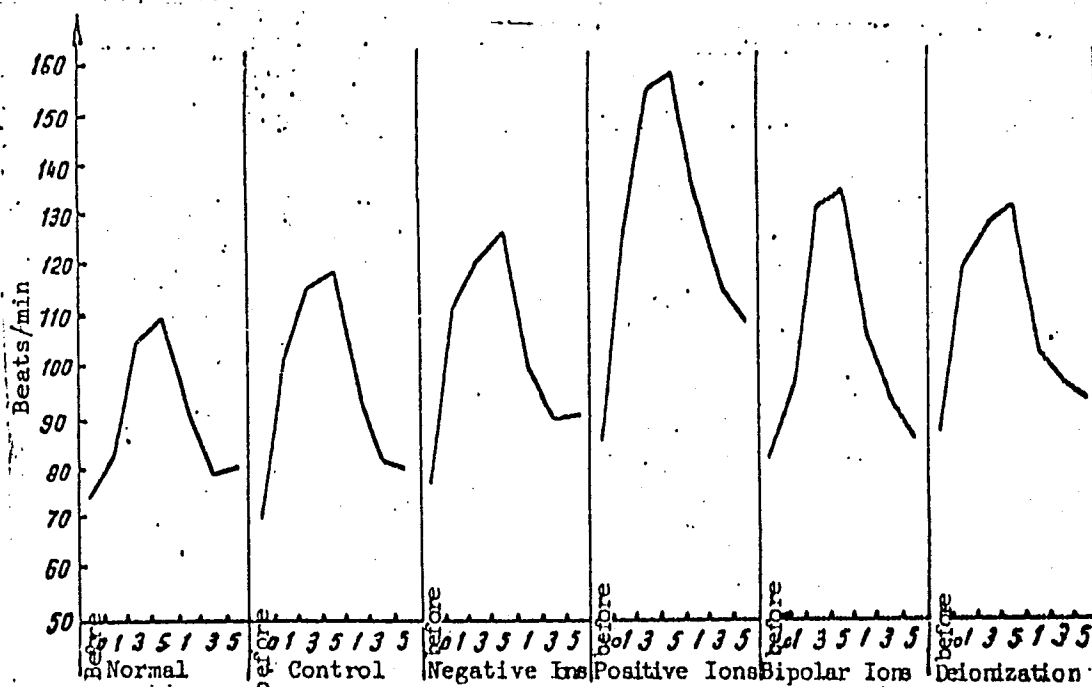


Fig. 3. Pulse variations during bicycle ergometer tests

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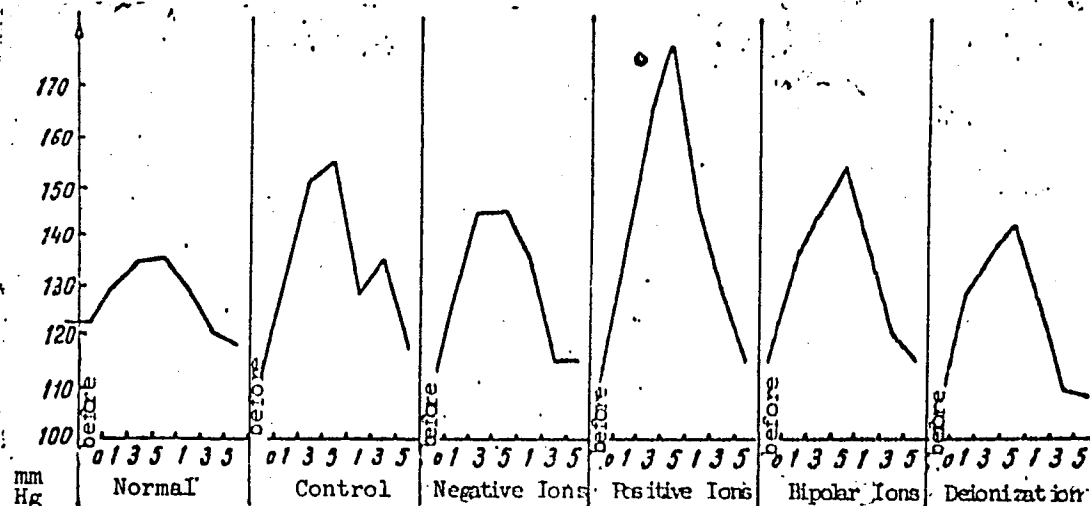


Fig 4. Changes in systolic pressure during exercise on a bicycle ergometer (mean values)

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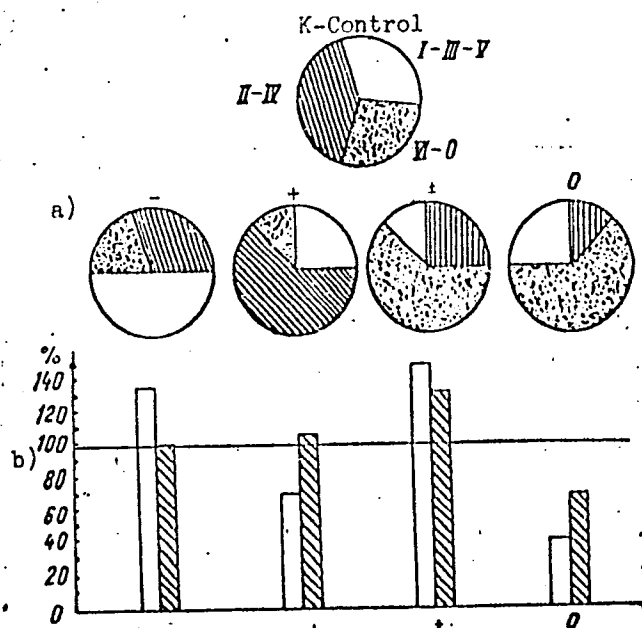


Fig. 5. Comparative characteristics of changes in the strength of neural processes in various experimental regimens (+, -, ±, control)

a - Character of reactivity curves;
b - changes in the coefficient of reactivity to light (white) and to opening the eyes (striped).

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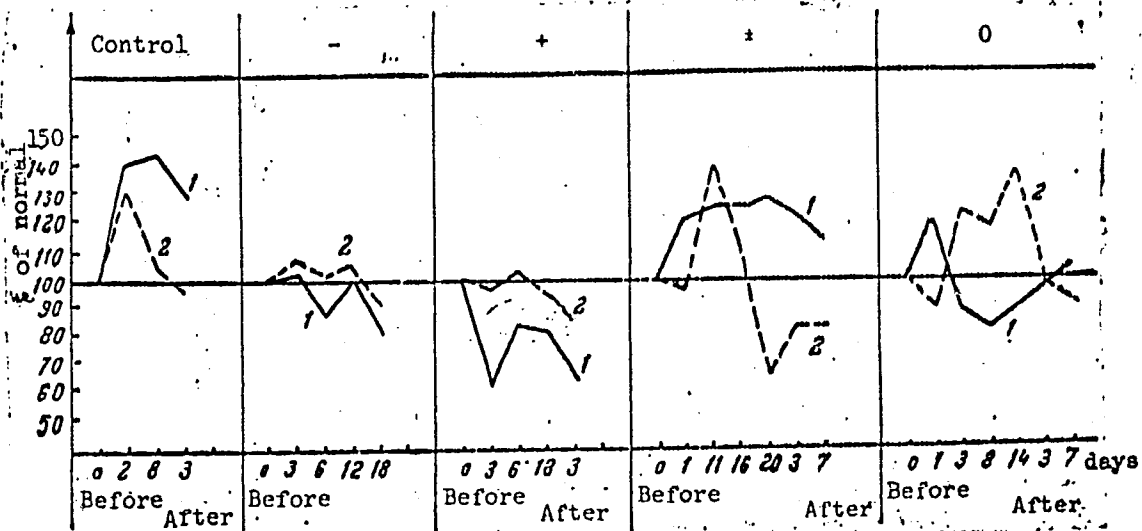


Fig. 6. Changes in the sensitivity of central (E_0) and peripheral (L_3) components of the visual analyzer (mean values): 1 - E_0 ; 2 - L_3

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during experimentation. Allowing that the natural exposure dose for the lungs is 12.87 mrem/week (Sivintsev, 1960), it was calculated that 1 g of lung receives $0.33 \cdot 10^{10}$ pairs of ions per day. If, in the respiratory medium, there were 500 pairs of light ions/cm³ and 5000 pairs of heavy ions/cm³, then $0.7 \cdot 10^{10}$ light and $7 \cdot 10^{10}$ heavy pairs of ions would reach the lungs of a man during a day. In these experiments, the average subject received approximately 10^{11} pairs of light ions per day. In the fifth experiment, the chamber was de-ionized using a system of filters and special ion traps. However, complete de-ionization could not be achieved and the density was 50—60 pairs of ions/cm³. Some results of these experiments are shown in Figs. 1-6. The results of the experiment generally showed increased muscular working capacity, external respiration, and an increased level of gas exchange during exercise in the experiment with negative aeroionization. Partial normalization of some indices occurred during the respiration of negative aeroions. However, for a number of indices, a normalizing effect was also noted in response to the respiration of positive and bipolar ions. Nonetheless, the general trend of the majority of shifts noted during experimentation lends credence to the proposition that prolonged exposure to positive ions or a de-ionized air leads to some changes deleterious to human health. It is possible that an effective approach to this problem would be to combine negative ions with positive or bipolar ions. The establishment of optimum aeroion regimens requires additional research. Orig. art. has: 7 figures. [CD]

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